



Consulting Engineers and Scientists

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7 June 2007

Mr. David Bacharowski
California Regional Water Quality Control Board
Los Angeles Region
320 West 4th Street, Suite 200
Los Angeles, CA 90013

Subject: Results of Soil and Grab Groundwater Sampling
for Volatile Organic Compounds
13500 Paxton Street, Pacoima, California
(EKI A20034.09)

Dear Mr. Bacharowski:

This report transmits analytical results for volatile organic compounds ("VOCs") detected in (a) soil confirmation samples collected adjacent to two former excavation areas at 13500 Paxton Street, Pacoima, California ("Site"), (b) soil and soil vapor samples collected at one off-Site location south of the former Oil Staging Area, and (c) grab groundwater samples collected from three locations in the central and southwestern portion of the Site.

FIELD INVESTIGATION

Field investigations included sampling of soil, soil vapor and groundwater as discussed below. Drilling was completed by Test America Drilling Corporation of Anaheim, California using hollow stem auger equipment. Boreholes were logged and soil samples collected by an EKI geologist. Sample collection and handling procedures and equipment decontamination procedures were consistent with previously approved investigation procedures for the Site. The locations and elevations of the boreholes and wells were surveyed by a professional land surveyor. Drilling cuttings and purge water were placed in appropriate containers and then disposed at a permitted off-Site disposal facility.

Confirmation Soil Sampling at BP26 and BP27/30 in Central Building P

Soil samples were collected from four boreholes to complete confirmation soil sampling adjacent to deep excavation areas BP26 and BP27/30, which were excavated by auger and backfilled in 2005 (see Figure 1). Consistent with the RWQCB requirement, the boreholes were located approximately four feet away from the perimeter of the slurry backfill as measured prior to drilling. The four soil boreholes (BPCON-1 through BPCON-4) were drilled to until just above the groundwater surface and soil samples were collected at approximately 5 feet intervals. The boreholes were drilled at the bottom of prior excavations that were approximately 10 feet deep. Therefore, the recorded depths of the soil samples were adjusted by approximately 10 feet so the sample depths will accurately correspond to the

depths of other soil samples from the area (see Table 1 for adjusted depths). Borehole logs for BPCON-1 through BPCON-4 are presented in Attachment A.

Off-Site Soil Sampling

One soil borehole, SVMW-227, was drilled at the 13311 Louvre Street property located south of the former Oil Staging Area. Soil samples were collected approximately 5, 10, 15, 25, 35, and 45 feet below ground surface ("bgs"). Groundwater in this portion of the site is currently encountered at approximately 50 feet bgs. Following soil sample collection, the borehole was converted to a soil vapor monitoring well with probes at depths of approximately 6, 15, 30, and 45 feet below the ground surface. The borehole log and well installation details will be provided in the forthcoming quarterly monitoring report for second quarter 2007.

Grab Groundwater Sampling

As requested by the RWQCB in an email from Wendy Phillips on 13 April 2007, grab groundwater samples were collected from three locations (PPGW-1, PPGW-7, and PPGW-11) and analyzed for VOCs. As requested by the RWQCB, sampling of groundwater for VOCs is planned at two additional locations in Sutter Avenue. The additional locations will be proposed in a letter to the RWQCB summarizing the groundwater sampling results for total chromium, hexavalent chromium, and 1,4-dioxane from the investigation completed pursuant to the approved *Work Plan for Additional Groundwater Investigation*¹. Samples from locations PPGW-1, PPGW-7, and PPGW-11 were collected and analyzed to address data gaps in the area of overlapping VOC groundwater plumes from the upgradient Soco West, Inc. (former Holchem) site and from the on-Site former Central Building P area.

Field methods and procedures for collection of the grab groundwater sampling were consistent with the methods and procedures described in the EKI's *Work Plan for Additional Groundwater Investigation* ("Work Plan"), dated 6 March 2007, as approved by the RWQCB in a letter dated 30 March 2007. The results of groundwater sampling for total chromium, hexavalent chromium, and 1,4-dioxane at these and other locations, which were proposed in the Work Plan, will be reported separately.

RESULTS OF SOIL AND GRAB GROUNDWATER SAMPLING FOR VOCs

Soil and grab groundwater samples were analyzed for VOCs using EPA Method 8260B by Calscience Environmental Laboratories, Inc. of Garden Grove, California. Soil vapor samples were analyzed for VOCs using EPA Method 8260B by an on-Site mobile laboratory operated by Centrum Analytical, Inc. of Riverside, California. Analytical laboratory reports are provided in Attachment B. Soil and grab groundwater sampling locations are shown on

¹ EKI, 2007. *Work Plan for Additional Groundwater Investigation*, 13500 Paxton Street, Pacoima, California, 6 March.

Figure 1. Analytical data results for VOCs in soil, soil vapor, and groundwater are presented in Tables 1, 2 and 3, respectively.

Soil Sampling Results at BP26 and BP27/30 at Central Building P

None of the soil sample analyses detected the presence of tetrachloroethene ("PCE"), trichloroethene ("TCE"), or cis-1,2-dichloroethene ("cis-1,2-DCE") above laboratory reporting limits (see Table 1, samples BPCON-1 through BPCON-4). The only VOCs detected were acetone in three samples (at BPCON-2 and BPCON-3) at a maximum concentration of 0.3 milligrams per kilogram ("mg/kg"), 2-butanone at 0.024 mg/kg in one sample (BPCON-2), and 2-hexanone at 0.019 mg/kg in one sample (BPCON-2). The detected concentrations of these VOCs are below potentially relevant regulatory criteria. Also, acetone and 2-butanone are common lab contaminants. Based on these and prior VOC soil sampling results, confirmation soil sampling at deep excavations BP26 and BP27/30 is completed. These same locations will be assessed for the presence of these and other VOCs in soil vapor as part of the Site-wide soil vapor survey to be conducted after completion of grading by the property owner.

Soil and Soil Vapor Sampling Results at SVMW-227

No VOCs were detected in the soil samples collected at off-Site boring SVMW-227 (see Table 1).

The only VOC detected in soil vapor samples collected from the 4 probes at SVMW-227 was chloroform, a common lab contaminant, at trace concentrations (Table 2). The samples collected at 6 and 15 feet bgs had chloroform at concentrations of 0.31 micrograms per liter ("ug/L") and 0.49 ug/L, respectively. These concentrations are below potentially relevant regulatory criteria. Vapor at SVMW-227 will be retested as part of the Site-wide soil vapor survey to be conducted after completion of grading.

Complete soil vapor sampling results will be presented in the forthcoming quarterly monitoring report for the second quarter 2007.

Grab Groundwater Sampling Results

The highest concentrations of VOCs were detected in the sample collected from PPGW-7 and were as follows: cis-1,2-DCE at 430 ug/L, TCE at 90 ug/L, and PCE at 77 ug/L. All other VOC detections were less than 35 ug/L. Grab groundwater locations are presented on Figure 1 and analytical results are included in Table 3.

These results are consistent with previously reported impacts to groundwater at the Site from the upgradient Soco West, Inc. (former Holchem) property. During January 2007, the groundwater sample from Well-A2 (referred to by Soco West, Inc. as PF-2A) was reported to have cis-1,2-DCE at 1,600 ug/L, TCE at 200 ug/L, and PCE at 88 ug/L.

Mr. David Bacharowski, RWQCB
7 June 2007
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Please contact us if you have questions about the information presented herein.

Very truly yours,

ERLER & KALINOWSKI, INC.

A handwritten signature in black ink, appearing to read 'Steven G. Miller'.

Steven G. Miller, P.E.
Project Manager

cc: Mohammad Zaidi, RWQCB
Wendy Phillips, RWQCB
Linda Biagioni, Black & Decker
Lorraine Sedlak, Black & Decker
Eileen Nottoli, Allen Matkins

Enclosures:

Table 1 Summary of VOC Analytical Results for Soil Samples
Table 2 Summary of VOC Analytical Results for Soil Vapor Samples
Table 3 Summary of VOC Analytical Results for Grab Groundwater – April 2007

Figure 1 VOCs in Soil and Grab Groundwater Samples

Attachment A Borehole Logs for BPCON-1 through BPCON-4
Attachment B Analytical Laboratory Reports for VOCs

Table 1
Summary of VOC Analytical Results for Soil Samples (1)
13500 Paxton Street, Pacoima, California

Sample Location	Date	Depth	Adjusted Depth (2)	VOCs (mg/kg)			Other VOCs
				PCE	TCE	cis-1,2-DCE	
BPCON-1	4/4/2007	5.5-6	15.8-16.3	<0.001	<0.001	<0.002	ND
	4/4/2007	10.5-11	20.8-21.3	<0.001	<0.001	<0.002	ND
	4/4/2007	15.5-16	25.8-26.3	<0.001	<0.001	<0.002	ND
	4/4/2007	20.5-21	30.8-31.3	<0.001	<0.001	<0.002	ND
	4/4/2007	25.5-26	35.8-36.3	<0.001	<0.001	<0.002	ND
	4/4/2007	30.5-31	40.8-41.3	<0.001	<0.001	<0.002	ND
	4/4/2007	35.5-36	45.8-46.3	<0.001	<0.001	<0.002	ND
	4/4/2007	40.5-41	50.8-51.3	<0.001	<0.001	<0.002	ND
BPCON-2	4/4/2007	5.5-6	15.5-16	<0.001	<0.001	<0.002	Acetone = 0.3 2-Butanone = 0.024 2-Hexanone = 0.019
	4/4/2007	10.5-11	20.5-21	<0.001	<0.001	<0.002	Acetone = 0.05
	4/4/2007	15.5-16	25.5-26	<0.001	<0.001	<0.002	ND
	4/4/2007	20.5-21	30.5-31	<0.001	<0.001	<0.002	ND
	4/4/2007	25.5-26	35.5-36	<0.001	<0.001	<0.002	ND
	4/4/2007	30.5-31	40.5-41	<0.001	<0.001	<0.002	ND
	4/4/2007	35.5-36	45.5-46	<0.001	<0.001	<0.002	ND
	4/4/2007	40.5-41	50.5-51	<0.001	<0.001	<0.002	ND
BPCON-3	4/4/2007	5.5-6	15.9-16.4	<0.001	<0.001	<0.002	Acetone = 0.092
	4/4/2007	10.5-11	20.9-21.4	<0.001	<0.001	<0.002	ND
	4/4/2007	15.5-16	25.9-26.4	<0.001	<0.001	<0.002	ND
	4/4/2007	20.5-21	30.9-31.4	<0.001	<0.001	<0.002	ND
	4/4/2007	25.5-26	35.9-36.4	<0.001	<0.001	<0.002	ND
	4/4/2007	30.5-31	40.9-41.4	<0.001	<0.001	<0.002	ND
	4/4/2007	35.5-36	45.9-46.4	<0.001	<0.001	<0.002	ND
	4/4/2007	40.5-41	50.9-51.4	<0.001	<0.001	<0.002	ND
BPCON-4	4/4/2007	5.5-6	15.8-16.3	<0.001	<0.001	<0.002	ND
	4/4/2007	10.5-11	20.8-21.3	<0.001	<0.001	<0.002	ND
	4/4/2007	15.5-16	25.8-26.3	<0.001	<0.001	<0.002	ND
	4/4/2007	20.5-21	30.8-31.3	<0.001	<0.001	<0.002	ND
	4/4/2007	25.5-26	35.8-36.3	<0.001	<0.001	<0.002	ND
	4/4/2007	30.5-31	40.8-41.3	<0.001	<0.001	<0.002	ND
	4/4/2007	35.5-36	45.8-46.3	<0.001	<0.001	<0.002	ND
	4/4/2007	40.5-41	50.8-51.3	<0.001	<0.001	<0.002	ND
SVMW-227	4/9/2007	5.5-6	--	<0.00085	<0.0017	<0.00085	ND
	4/9/2007	10.5-11	--	<0.00091	<0.0018	<0.00091	ND
	4/9/2007	15.5-16	--	<0.00089	<0.0018	<0.00089	ND
	4/9/2007	25.5-26	--	<0.00094	<0.0019	<0.00094	ND
	4/9/2007	35.5-36	--	<0.00081	<0.0016	<0.00081	ND
	4/9/2007	44.5-45	--	<0.00082	<0.0016	<0.00082	ND

Table 1
Summary of VOC Analytical Results for Soil Samples (1)
13500 Paxton Street, Pacoima, California

Abbreviations:

PCE - Tetrachloroethene

TCE - Trichloroethene

cis-1,2-DCE - cis-1,2-dichloroethene

VOC - Volatile Organic Compounds

< - Compound not detected at or above indicated laboratory detection limit

ND - Analyte not detected above its laboratory reporting limit.

mg/kg - milligrams per kilogram

Notes:

(1) Samples were analyzed using EPA Method 8260B.

(2) Samples BPCON-1 through BPCON-4 were collected from the bottom of an excavated area at a grade approximately 10 feet below original grade. Sample depths have been adjusted to reflect depth below the original grade (BPCON-1 by 10.3 feet; BPCON-2 by 10 feet; BPCON-3 by 10.4 feet; and BPCON-4 by 10.3 feet).

Table 2
Summary of VOC Analytical Results for Soil Vapor Samples
 13500 Paxton Street, Pacoima, CA

Sample Location	Sample Depth (feet, bgs)	Date	Analytical Results (µg/L) (1)			
			PCE	TCE	cis-1,2-DCE	Other VOCs
SVMW-227	6	4/12/2007	<0.20	<0.20	<0.20	chloroform = 0.31
SVMW-227	15	4/12/2007	<0.20	<0.20	<0.20	chloroform = 0.49
SVMW-227	30	4/12/2007	<0.20	<0.20	<0.20	ND
SVMW-227	45	4/12/2007	<0.20	<0.20	<0.20	ND

Abbreviations:

< = Compound not detected at or above indicated laboratory detection limit

bgs = below ground surface

cis-1,2-DCE = cis-1,2-Dichloroethene

PCE = Tetrachloroethene

TCE = Trichloroethene

µg/L = Micrograms per liter

VOCs = Volatile Organic Compounds

ND = not detected

Notes:

(1) Soil vapor samples were analyzed for VOCs using EPA Method 8260B in an on-Site mobile laboratory.

Table 3
Summary of VOC Analytical Results for Grab Groundwater - April 2007
13500 Paxton Street, Pacoima, California

Well	Date	Note	VOCs (µg/L) (1)(2)													Other VOCs
			PCE	1,1,1-TCA	TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	1,1-DCA	1,2-DCA	Chloroform	Benzene	Toluene	Ethylbenzene	Total Xylenes	
PPGW-1	4/19/2007		26	<1	8.1	2	<1	1.2	1.1	<0.5	<1	<0.5	<1	<1	<2	ND
PPGW-7	4/19/2007		77	10	90	430	9.6	14	14	2.2	1.6	<0.5	<1	<1	<2	ND
PPGW-11	4/19/2007	DUP	32	2	26	5.7	<1	2.8	1.3	<0.5	<1	<0.5	<1	<1	<2	ND
PPGW-11	4/19/2007		34	1.9	27	5.8	<1	2.5	1.3	<0.5	<1	<0.5	<1	<1	<2	ND
Blanks																
EB-2	4/19/2007		<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<2	ND
FB-3	4/19/2007		<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<2	ND
TB-6	4/19/2007		<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<0.5	<1	<1	<2	ND

Abbreviations:

< = Compound not detected at or above indicated laboratory detection limit

1,1-DCA = 1,1-dichloroethane

1,1-DCE = 1,1-dichloroethene

1,1,1-TCA = 1,1,1-trichloroethane

1,2-DCA = 1,2-dichloroethane

cis-1,2-DCE = cis-1,2-dichloroethene

"DUP" = duplicate sample

EB = Equipment blank

FB = Field blank

ND = Analyte not detected above its laboratory reporting limit

PCE = Tetrachloroethene

TB = Trip Blank

TCE = Trichloroethene

trans-1,2-DCE = trans-1,2-dichloroethene

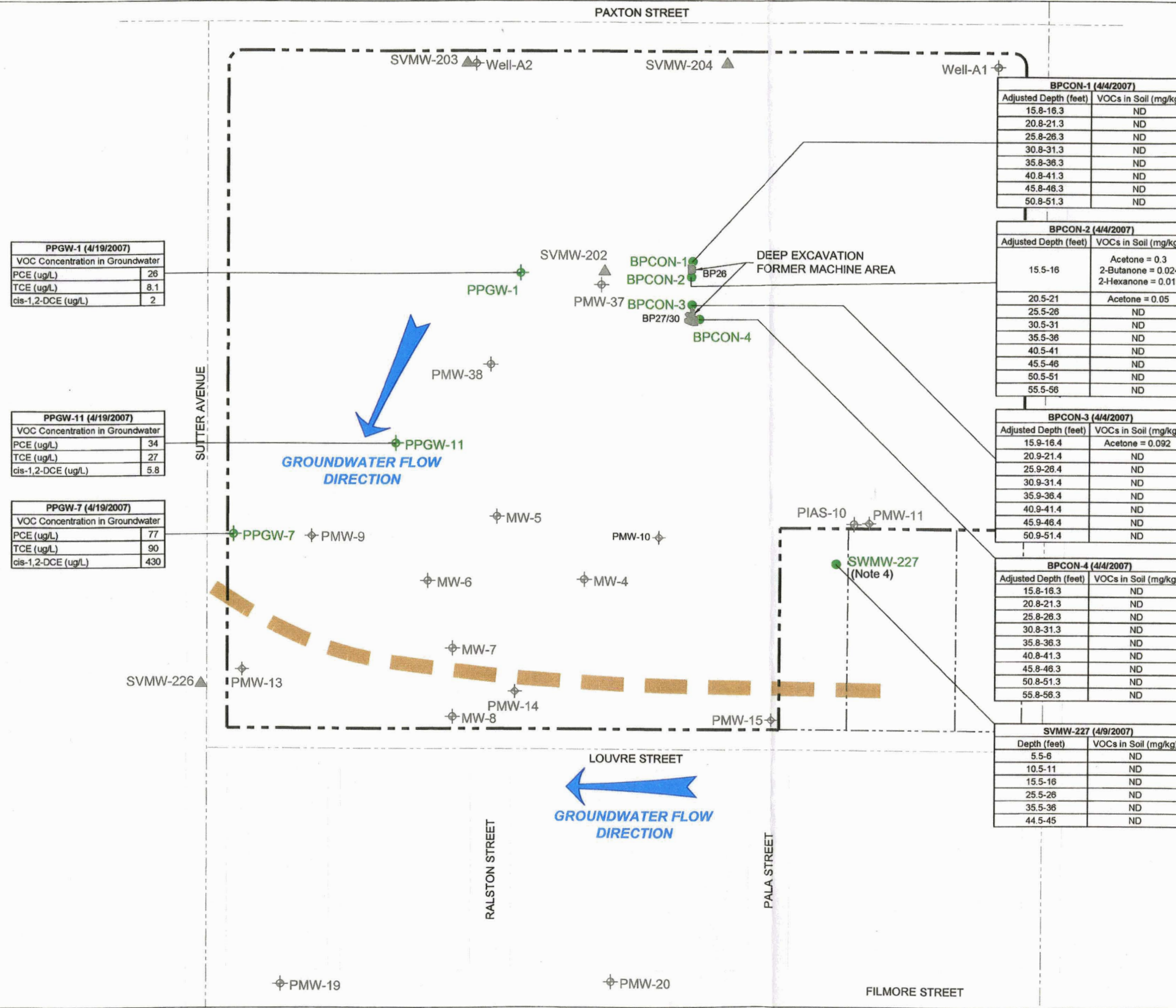
µg/L = Micrograms per liter

VOC = Volatile Organic Compound

Notes:

(1) Bladder pumps and tubing were used to collect samples in accordance with low flow purging and sampling procedures described in U.S. EPA Ground Water Issue: Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures, dated December 1995, and U.S. EPA Region 9 Quick Reference Advisory - Use of Low-Flow Methods for Groundwater Purging and Sampling: An Overview, dated December 1995.

(2) These samples were analyzed for VOCs using EPA Method 8260B. Analytes not shown were not detected at or above laboratory reporting limits.



N

0 150 300
(Approximate Scale in Feet)

Legend:

- ⊕ Groundwater Monitoring Well
- ⊕ Soil Vapor/Groundwater Monitoring Well
- ▲ Soil Vapor Monitoring Well
- ⊕ Grab Groundwater Sampling Location
- Soil Sampling Location
- - - Approximate Site Boundary
- Apparent Concealed Fault Zones Based on Historical Groundwater Elevation Data

Abbreviations:

mg/kg = Milligrams per kilogram
 ug/L = Micrograms per liter
 VOCs = Volatile organic compounds

Note:

- All locations are approximate.
- Well and soil sampling locations were surveyed by Bill Carr Surveys, Inc.
- Well-A1 and Well-A2 are part of the monitoring program for the upgradient SocoWest site.
- Borehole location SVMW-227 was converted to a soil vapor monitoring well.

Erler & Kalinowski, Inc.

VOCs in Soil and Grab Groundwater Samples

13500 Paxton Street
 Pacoima, CA
 June 2007
 EKI A20034.09

Figure 1

ATTACHMENT A

Borehole Logs for BPCON-1 through BPCON-4



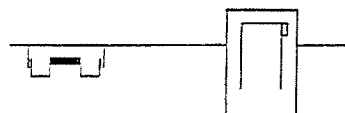
Key to Borehole and Well Construction Logs

Blow Count (Penetration Resistance)

Recorded as the number of blows required to drive the sampler 0.5 feet into undisturbed sediment. Sample drive hammer weight \approx 140 pounds; fall \approx 30 inches.

Well Cover Types

Flush mount Stove pipe



Organic Vapor Meter (OVM) Readings

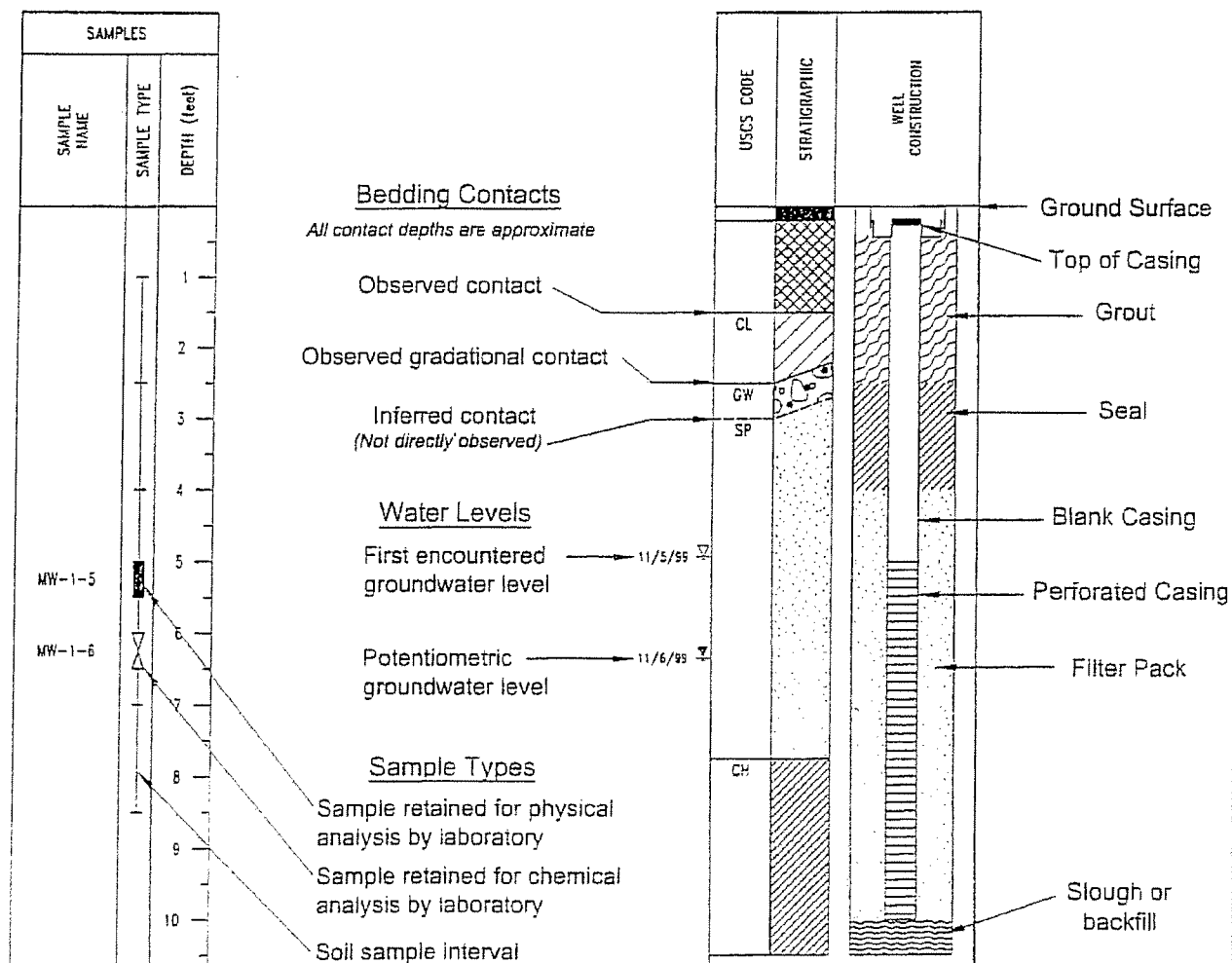
Locations Monitored

BZ - Breathing zone C - Drill cuttings
A - Top of auger S - Sample

Reported in volumetric parts per million (ppmv)

Color Description

10YR Munsell[®] alphanumeric system
4/3 Description of soil or rock color



Key to Borehole and Well Construction Logs SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS	
			GRAPHIC	LETTER		
COARSE GRAINED SOILS MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED BY NO. 4 SIEVE	CLEAN GRAVELS		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES	
		(LITTLE OR NO FINES)		GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES	
		GRAVELS WITH FINES		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES	
		(APPRECIABLE AMOUNT OF FINES)		GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES	
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING NO. 4 SIEVE	CLEAN SANDS		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES	
		(LITTLE OR NO FINES)		SP	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES	
		SANDS WITH FINES		SM	SILTY SANDS, SAND - SILT MIXTURES	
		(APPRECIABLE AMOUNT OF FINES)		SC	CLAYEY SANDS, SAND - CLAY MIXTURES	
		FINE GRAINED SOILS MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
					CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
	OL			ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY		
	MH			INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS		
	CH			INORGANIC CLAYS OF HIGH PLASTICITY		
	OH			ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS		
HIGHLY ORGANIC SOILS			PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENT		

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

Borehole & Well Construction Log



BOREHOLE LOCATION 13500 Paxton Street, Pacoima, CA 91331			BOREHOLE / WELL NAME BPCON-1		
DRILLING COMPANY TestAmerica Drilling Corp., C-57 Lic. # 819548			PROJECT NAME Price Pfister		
DRILLING METHOD Hollow-Stem Auger			PROJECT NUMBER A20034.09		
CONDUCTOR CASING	DIAMETER (inches)	FROM (feet)	TO	DATE STARTED 4/4/07	DATE COMPLETED 4/4/07
BLANK CASING	DIAMETER (inches)	FROM (feet)	TO	BOREHOLE DIAM (inches) 8.0	TOTAL DEPTH (feet) 50
PERFORATED CASING	DIAMETER (inches)	FROM (feet)	TO	DATUM North American Vertical Datum 1988	
GROUT Type II/V Portland Cement with up to 5% Bentonite		FROM (feet) 0.0	TO 50.0	TOP OF CASING	GROUND SURFACE 1034.05
SEAL		FROM (feet)	TO	LOGGED BY Noah Kutaka	
FILTER PACK		FROM (feet)	TO	CHECKED BY Logan Hansen, PG #7522	

REMARKS

SAMPLES							MATERIAL DESCRIPTION AND DRILLING NOTES	USCS CODE	GRAPHIC LOG	WELL CONSTRUCTION
TIME COLLECTED	SAMPLE NAME	SAMPLE TYPE	RECOVERY (feet)	BLOW COUNT	OVM (ppmv)	DEPTH (feet)				
10:08	BPCON-1-5.5-6	+	0.0 0.1 0.4		0.0	5	Unpaved ground surface in excavated area in Building P footprint, approximately 10 feet below surrounding ground surface <u>SAND WITH GRAVEL</u> : brown (10YR 4/3); 40% fine to coarse gravel; 60% fine to coarse grained sand; dry to moist; with broken rock fragments	SW		
10:13	BPCON-1-10.5-11	+	0.0 0.2 0.3		0.0	10	Decreasing gravel to 30%; as above			
10:18	BPCON-1-15.5-16	+	0.0 0.3 0.5		0.1	15	As above			
10:24	BPCON-1-20.5-21	+	0.0 0.1 0.3		0.2	20	As above with broken rock fragments			
10:29	BPCON-1-25.5-26	+	0.0 0.1 0.3		0.2	25	As above			

1-EKI STD - BH AND MW LOG BPCON GPJ EKI V5/GOT 5/8/07

Borehole & Well Construction Log



PROJECT NAME		Price Pfister		PROJECT NUMBER		A20034.09		BOREHOLE / WELL NAME		BPCON-1	
SAMPLES							MATERIAL DESCRIPTION AND DRILLING NOTES	USCS CODE	GRAPHIC LOG	WELL CONSTRUCTION	
TIME COLLECTED	SAMPLE NAME	SAMPLE TYPE	RECOVERY (feet)	BLOW COUNT	OVM (ppmv)	DEPTH (feet)					
10:34	BPCON-1-30.5-31	+	0.0 0.0 0.4		0.4	30	Decreasing gravel to 30%; as above				
10:38	BPCON-1-35.5-36	+	0.0 0.1 0.3		0.1	35	Increasing gravel to 40%; as above				
10:44	BPCON-1-40.5-41	+	0.0 0.1 0.4		0.0	40	dry to moist; decreasing gravel to 15%; as above				
10:48		+	0.0 0.0 0.1		0.1	45	Poor recovery; as above				
						50	Total Depth of Borehole = 50 feet.				
						55					
						60					
						65					
						70					

1-EK STD. BH AND MW LOG BPCON.GPJ EKIF V5 GDT 5/2/07

Borehole & Well Construction Log



BOREHOLE LOCATION 13500 Paxton Street, Pacoima, CA 91331				BOREHOLE / WELL NAME BPCON-2			
DRILLING COMPANY TestAmerica Drilling Corp., C-57 Lic. # 819548				PROJECT NAME Price Pfister			
DRILLING METHOD Hollow-Stem Auger				PROJECT NUMBER A20034.09			
CONDUCTOR CASING		DIAMETER (inches)	FROM (feet)	TO	DATE STARTED 4/4/07	DATE COMPLETED 4/4/07	
BLANK CASING		DIAMETER (inches)	FROM (feet)	TO	BOREHOLE DIAM (inches) 8.0	TOTAL DEPTH (feet) 45	
PERFORATED CASING		DIAMETER (inches)	FROM (feet)	TO	DATUM North American Vertical Datum 1988		
GROUT Type II/V Portland Cement with up to 5% Bentonite			FROM (feet) 0.0	TO 45.0	TOP OF CASING	GROUND SURFACE 1034.33	
SEAL			FROM (feet)	TO	LOGGED BY Noah Kutaka		
FILTER PACK			FROM (feet)	TO	CHECKED BY Logan Hansen, PG #7522		

REMARKS

SAMPLES							MATERIAL DESCRIPTION AND DRILLING NOTES	USCS CODE	GRAPHIC LOG	WELL CONSTRUCTION
TIME COLLECTED	SAMPLE NAME	SAMPLE TYPE	RECOVERY (feet)	BLOW COUNT	QVM (ppmv)	DEPTH (feet)				
12:52	BPCON-2-5.5-6	+	0.0 0.3 0.4		0.8	5	Unpaved ground surface in excavated area in Building P footprint, approximately 10 feet below surrounding ground surface <u>SAND WITH GRAVEL</u> : dark yellowish brown (10YR 4/4); 30% fine to coarse gravel; 70% fine to coarse grained sand; dry to moist; with broken rock fragments	SW		
12:58	BPCON-2-10.5-11	+	0.0 0.2 0.3		0.8	10	brown (10YR 4/3); dry to moist; decreasing gravel to 15%; as above			
13:00	BPCON-2-15.5-16	+	0.3 0.5 0.5		0.8	15	dry to moist; increasing gravel to 30%; as above with broken rock fragments			
13:07	BPCON-2-20.5-21	+	0.0 0.0 0.2		0.4	20	Increasing gravel to 40%; as above			
13:10	BPCON-2-25.5-26	+	0.0 0.2 0.4		0.4	25	As above			

1-EKI STD - BH AND MW LOG BPCON.GPJ EKI V5 GDT 5/8/07

Borehole & Well Construction Log



PROJECT NAME		Price Pfister		PROJECT NUMBER		A20034.09		BOREHOLE / WELL NAME		BPCON-2	
SAMPLES							MATERIAL DESCRIPTION AND DRILLING NOTES	USCS CODE	GRAPHIC LOG	WELL CONSTRUCTION	
TIME COLLECTED	SAMPLE NAME	SAMPLE TYPE	RECOVERY (feet)	BLOW COUNT	OVM (ppmv)	DEPTH (feet)					
13:15	BPCON-2-30.5-31	+	0.0 0.1 0.4		0.8	30	Decreasing gravel to 30%; as above				
13:19	BPCON-2-35.5-36	+	0.0 0.1 0.3		0.8	35	As above				
13:23	BPCON-2-40.5-41	+	0.0 0.1 0.3		0.8	40	brown (10YR 5/3); dry to moist; decreasing gravel to 15%; as above				
13:25	BPCON-2-44.5-45	+	0.0 0.0 0.4		0.8	45	dark yellowish brown (10YR 4/4); As above				
							Total Depth of Borehole = 45 feet.				
							50				
							55				
							60				
							65				
							70				

1-EKI STD - BH AND MW LOG BPCON.GPJ EKF V5.GDT 5/8/07

Borehole & Well Construction Log

BOREHOLE LOCATION 13500 Paxton Street, Pacoima, CA 91331		BOREHOLE / WELL NAME BPCON-3	
DRILLING COMPANY TestAmerica Drilling Corp., C-57 Lic. # 819548		PROJECT NAME Price Pfister	
DRILLING METHOD Hollow-Stem Auger		PROJECT NUMBER A20034.09	
CONDUCTOR CASING	DIAMETER (inches)	FROM (feet)	TO
DATE STARTED	4/4/07	DATE COMPLETED	4/4/07
BLANK CASING	DIAMETER (inches)	FROM (feet)	TO
BOREHOLE DIAM (inches)	8.0	TOTAL DEPTH (feet)	45
PERFORATED CASING	DIAMETER (inches)	FROM (feet)	TO
DATUM	North American Vertical Datum 1988		
GROUT	Type II/IV Portland Cement with up to 5% Bentonite	FROM (feet)	TO
TOP OF CASING		GROUND SURFACE	1033.90
SEAL		FROM (feet)	TO
LOGGED BY	Noah Kutaka		
FILTER PACK		FROM (feet)	TO
CHECKED BY	Logan Hansen, PG #7522		

REMARKS

SAMPLES							MATERIAL DESCRIPTION AND DRILLING NOTES	USCS CODE	GRAPHIC LOG	WELL CONSTRUCTION
TIME COLLECTED	SAMPLE NAME	SAMPLE TYPE	RECOVERY (feet)	BLOW COUNT	OVM (ppmv)	DEPTH (feet)				
14:17	BPCON-3-5.5-6	+	0.1 0.1 0.2		2.1	5	Unpaved ground surface in excavated area in Building P footprint, approximately 10 feet below surrounding ground surface SAND WITH GRAVEL, yellowish brown (10YR 5/4); 15% fine to coarse gravel; 85% fine to coarse grained sand; dry to moist	SW		
14:20	BPCON-3-10.5-11	+	0.0 0.1 0.2		0.4	10	As above			
14:24	BPCON-3-15.5-16	+	0.0 0.0 0.2		0.4	15	As above			
14:28	BPCON-3-20.5-21	+	0.0 0.2 0.4		0.0	20	brown (10YR 4/3); increasing gravel to 30%; as above with broken rock fragments			
14:32	BPCON-3-25.5-26	+	0.0 0.0 0.4		0.0	25	As above			

1-EKI STD - BH AND MW LOG BPCON.GPJ EKIF V5 GDT 5/8/07

Borehole & Well Construction Log



PROJECT NAME		PROJECT NUMBER		BOREHOLE / WELL NAME					
Price Pfister		A20034.09		BPCON-3					
SAMPLES						MATERIAL DESCRIPTION AND DRILLING NOTES	USCS CODE	GRAPHIC LOG	WELL CONSTRUCTION
TIME COLLECTED	SAMPLE NAME	SAMPLE TYPE	RECOVERY (feet)	BLOW COUNT	DEPTH (feet)				
14:36	BPCON-3-30.5-31	⊗	0.0 0.0 0.3		0.0	30	decreasing gravel to 15%, as above		
14:42	BPCON-3-35.5-36	⊗	0.0 0.1 0.4		0.0	35	increasing gravel to 30%, as above		
14:47	BPCON-3-40.5-41	⊗	0.0 0.2 0.3		0.0	40	As above		
14:50		⊗	0.0 0.2 0.3		0.1	45	moist to wet, as above		
						45	Total Depth of Borehole = 45 feet.		
						50			
						55			
						60			
						65			
						70			

1-EKI STD - BH AND MW LOG BPCON.GPJ EKI 5/8/07

Borehole & Well Construction Log



BOREHOLE LOCATION 13500 Paxton Street, Pacoima, CA 91331			BOREHOLE / WELL NAME BPCON-4		
DRILLING COMPANY TestAmerica Drilling Corp., C-57 Lic. # 819548			PROJECT NAME Price Pfister		
DRILLING METHOD Hollow-Stem Auger			PROJECT NUMBER A20034.09		
CONDUCTOR CASING	DIAMETER (inches)	FROM (feet)	TO	DATE STARTED 4/4/07	DATE COMPLETED 4/4/07
BLANK CASING	DIAMETER (inches)	FROM (feet)	TO	BOREHOLE DIAM (inches) 8.0	TOTAL DEPTH (feet) 45
PERFORATED CASING	DIAMETER (inches)	FROM (feet)	TO	DATUM North American Vertical Datum 1988	
GROUT Type II/V Portland Cement with up to 5% Bentonite		FROM (feet) 0.0	TO 45.0	TOP OF CASING	GROUND SURFACE 1034.04
SEAL		FROM (feet)	TO	LOGGED BY Noah Kutaka	
FILTER PACK		FROM (feet)	TO	CHECKED BY Logan Hansen, PG #7522	

REMARKS

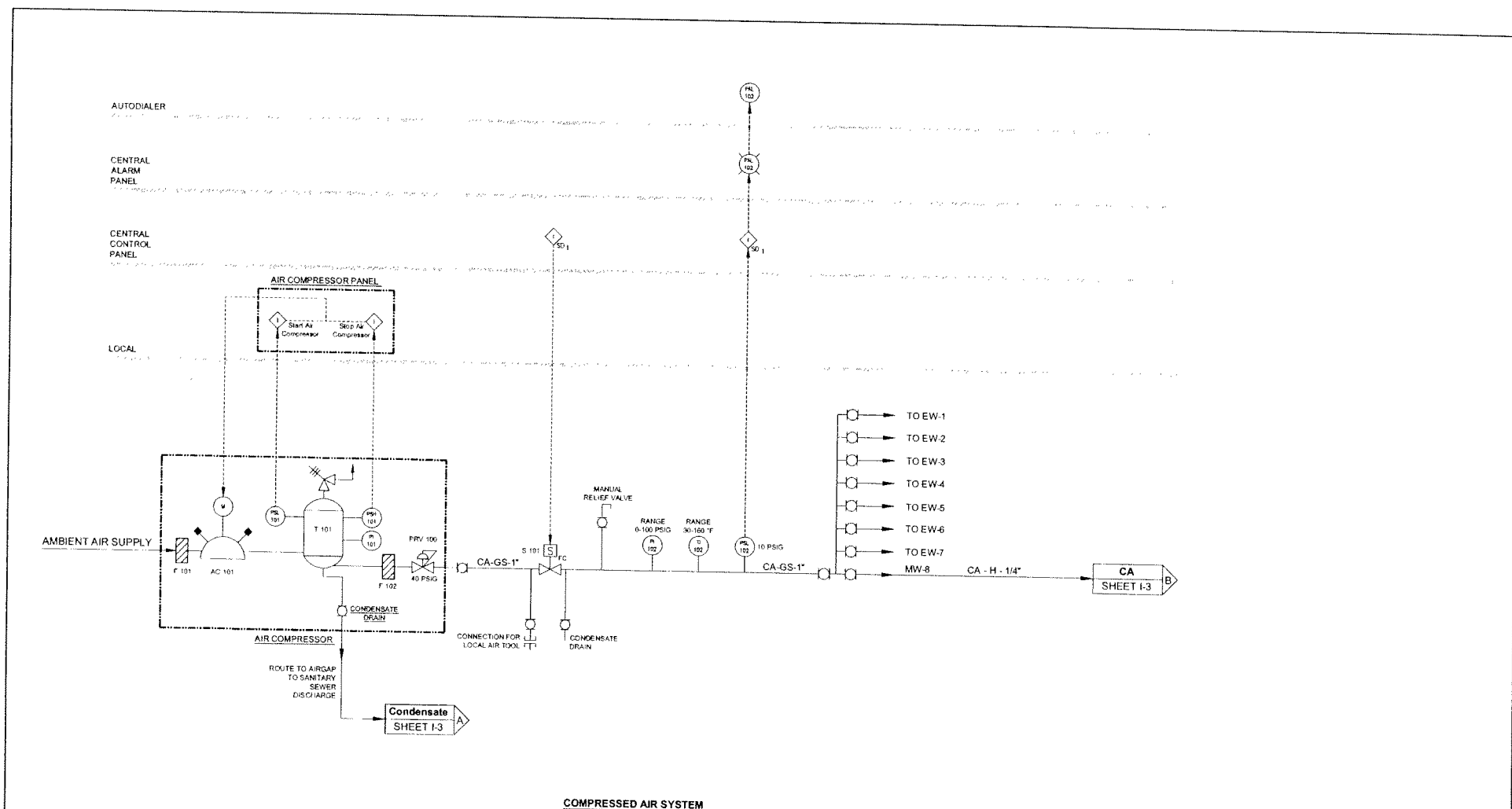
SAMPLES							MATERIAL DESCRIPTION AND DRILLING NOTES	USCS CODE	GRAPHIC LOG	WELL CONSTRUCTION
TIME COLLECTED	SAMPLE NAME	SAMPLE TYPE	RECOVERY (feet)	BLOW COUNT	OVM (ppmv)	DEPTH (feet)				
15:29	BPCON-4-5.5-6	+	0.0 0.0 0.2		0.0	5	Unpaved ground surface in excavated area in Building P footprint, approximately 10 feet below surrounding ground surface Auger having difficulty advancing <u>SAND WITH GRAVEL</u> : dark yellowish brown (10YR 4/4); 15% fine to coarse gravel; 85% fine to coarse grained sand; dry to moist	SW		
15:33	BPCON-4-10.5-11	+	0.0 0.4 0.4		0.0	10	Increasing gravel to 30%; as above with broken rock fragments			
15:37	BPCON-4-15.5-16	+	0.0 0.3 0.3		0.0	15	dark yellowish brown (10YR 3/6); as above			
15:42	BPCON-4-20.5-21	+	0.0 0.2 0.3		0.0	20	dark yellowish brown (10YR 4/4); decreasing gravel to 15%; as above			
15:47	BPCON-4-25.5-26	+	0.0 0.0 0.2		0.0	25	brown (10YR 4/3); increasing gravel to 30%; as above			

1-EKI STD-BH AND MW LOG BPCON.GPJ EKI V5.GDT 5/6/07

EKI Erler &
Kallinowski,
Inc.

LEKI STD - BH AND MW LOG BP CON GPJ EKIF: V5.GDT 5/8/07

ATTACHMENT B
Analytical Laboratory Reports for VOCs



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